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PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : LIEBESCHUETZ, John Walter *et al*

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Docket No. : 00218/US

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Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

UNITED STATES

Sir:

COMMUNICATION

Please find attached a document that was intended to accompany our response to the last Office Action.

Serial No. 10/030,186
Supplement to Response to Office communication of October 29, 2003

Respectfully submitted,

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February 4, 2004

International Union of Pure and Applied Chemistry
Organic Chemistry Division
Commission on Nomenclature of Organic Chemistry (III.1)

A Guide to IUPAC Nomenclature of Organic Compounds

Recommendations 1993

(including revisions, published and hitherto unpublished, to the 1979 edition of *Nomenclature of Organic Chemistry*)

Prepared for publication by
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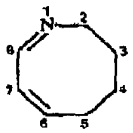
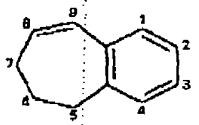


2,3,4,5-Tetrahydroazocine



6,7-Dihydro-5*H*-benzo[7]annulene[41]

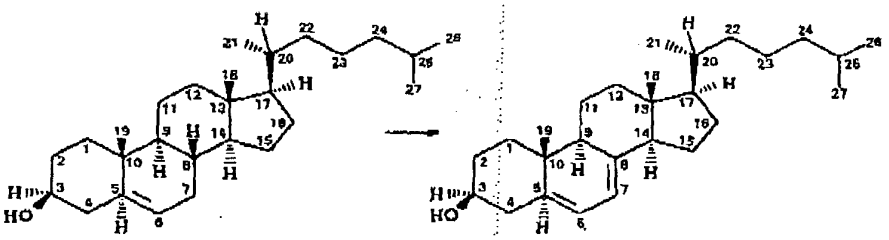
R-3.1.3 **Dehydro prefixes**

The presence of a double bond not implied in the parent hydride name can be indicated by a 'didehydro-' prefix signifying the removal of a pair of hydrogen atoms.

Examples:

Phosphepane

1,2-Didehydrophosphepane[42]



Cholesterol

7,8-Didehydrocholesterol[43]

Similarly, the conversion of a double into a triple bond can be indicated by 'didehydro-'.

Example:

1,2-Didehydrobenzene
(formerly called 'Benzyne')

(see also 7,8-Didehydro-*s*,*s*-carotene under R-1.2.5.1).

[41] The traditional names obtained on the basis of Rules A-21.4 and A-23.5 of IUPAC *Nomenclature of Organic Chemistry*[1], '6,7-Dihydro-5*H*-benzocycloheptene' and 'Benzocyclohepta-1,3-diene', could lead to ambiguity. They are no longer encouraged. For an explanation of the use of 'annulene' as the base component in these names, see section R-2.4.1.1.

[42] However, the name '4,5,6,7-tetrahydro-3*H*-phosphepine' has been used traditionally and is still to be preferred in these recommendations.

[43] However, the name 'cholesta-5,7-dien-3*β*-ol', is preferred in IUPAC–IUBMB steroid nomenclature.